Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a computer system, an improved method for developing a Web application, the method comprising:

providing a Web application development framework, said framework including an abstract command tag that predefines at least some generic Web application activities;

specifying at least one custom action that is desired to be performed by a Web application;

creating an object-oriented programming language (OOPL) class that extends the abstract command tag for providing execution logic for said at least one custom action, in addition to pre-existing logic that supports said at least some generic Web application activities, thereby creating a corresponding customized command tag that is capable of being embedded within a Web page;

mapping a customized name of the customized command tag in a tag library descriptor file to the custom action;

embedding the customized command tag <u>with the customized name</u> in a Web page of the Web application; and

upon execution of the Web application including [[an]] the embedded customized command tag in a Web page, invoking the customized command tag for conditionally executing said specified at least one custom action based on run-time conditions of the Web application and run-time values for one or more attributes included in the customized command tag.

2. (Original) The method of claim 1, wherein said run-time conditions include run-time parameters specified during invocation of the customized command tag.

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- 3. (Original) The method of claim 2, wherein said run-time parameters are specified via Hypertext Transport Protocol (HTTP) parameters, during invocation of the customized command tag.
- 4. (Original) The method of claim 1, wherein said abstract command tag comprises an abstract base class.
- 5. (Original) The method of claim 1, wherein said abstract command tag includes an abstract execute method.
- 6. (Original) The method of claim 5, wherein said abstract execute method is overridden during creation of the customized command tag, for defining a customized execute method providing specific runtime execution logic for the customized command tag.
- 7. (Previously Presented) The method of claim 5, wherein creation of the OOPL class that extends the base class includes providing an implementation for the abstract execute method.
- 8. (Original) The method of claim 1, wherein said customized command tag includes an ability to conditionally affect application flow based on results obtained from a specified action.
- 9. (Original) The method of claim 8, wherein application flow is affected by routing to a particular Web page.
- 10. (Original) The method of claim 8, wherein said result obtained is either success or failure.

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- 11. (Original) The method of claim 10, wherein application flow is directed to a first page if a success is obtained as the result, and is directed to a second page if a failure is obtained as the result.
- 12. (Original) The method of claim 8, wherein said application flow includes routing to a different page than is currently displayed in a user's browser.
- 13. (Original) The method of claim 1, wherein said generic Web application activities include error recording.
- 14. (Previously Presented) The method of claim 1, wherein said generic Web application activities include filtering of requests to match run-time attributes of the requests with the run-time values for the one or more attributes included in the customized command tag.
- 15. (Original) The method of claim 1, wherein said generic Web application activities include page routing.
- 16. (Original) The method of claim 1, wherein said generic Web application activities include activities that may be predefined before application execution.
- 17. (Original) The method of claim 1, wherein said customized command tag is invoked when an end user activates a link that points to a Web page containing the customized command tag.
- 18. (Original) The method of claim 17, wherein said link comprises a Uniform Resource Locator (URL).
- 19. (Previously Presented) The method of claim 17, wherein said Web page containing the customized command tag comprises a Web page generated using dynamic scripting capability.

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- 20. (Previously Presented) The method of claim 1, further comprising: compiling the Web page generated using dynamic scripting capability into a servlet, said servlet corresponding to said created OOPL class that extends the abstract command tag.
- 21. (Currently Amended) A computer-readable storage medium storing instructions for a Web application framework, which when executed by a computer system, causes the computer system to perform a method comprising:

specifying an abstract command tag that predefines at least some generic Web application activities;

providing a programming environment for:

- (i) specifying at least one custom action that is desired to be performed by a Web application under development, by supporting creation of an object-oriented programming language (OOPL) class that extends the abstract command tag for providing execution logic for said at least one custom action, thereby creating a corresponding customized command tag that is capable of being embedded within a Web page, wherein a customized name of the customized command tag is mapped to the custom action in a tag library descriptor file, and wherein said customized command tag includes the ability to conditionally execute said specified at least one custom action based on run-time conditions; and
- (ii) enabling embedding of the customized command tag <u>with the</u> <u>customized name</u> in a Web page of the Web application;

embedding the customized command tag <u>with the customized name</u> in a Web page of the Web application; and

wherein execution of the Web application includes invoking the customized command tag for conditionally executing said specified at least one custom action based on run-time conditions of the Web application and run-time values for one or more attributes included in the customized command tag.

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- 22. (Previously Presented) The computer-readable storage medium of claim 21, wherein said run-time conditions include run-time parameters specified during invocation of the customized command tag.
- 23. (Previously Presented) The computer-readable storage medium of claim 22, wherein said run-time parameters are specified via Hypertext Transport Protocol (HTTP) parameters, during invocation of the customized command tag.
- 24. (Previously Presented) The computer-readable storage medium of claim 21, wherein said abstract command tag comprises an abstract base class.
- 25. (Previously Presented) The computer-readable storage medium of claim 21, wherein said abstract command tag includes an abstract execute method.
- 26. (Previously Presented) The computer-readable storage medium of claim 25, wherein said abstract execute method is overridden during creation of the customized command tag, for defining a customized execute method providing specific runtime execution logic for the customized command tag.
- 27. (Previously Presented) The computer-readable storage medium of claim 25, wherein creation of the OOPL class that extends the base class includes providing an implementation for the abstract execute method.
- 28. (Previously Presented) The computer-readable storage medium of claim 21, wherein said customized command tag includes an ability to conditionally affect application flow based on results obtained from a specified action.
- 29. (Previously Presented) The computer-readable storage medium of claim 28, wherein application flow is affected by routing to a particular Web page.

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- 30. (Original) The framework of claim 28, wherein said result obtained is either success or failure.
- 31. (Previously Presented) The computer-readable storage medium of claim 30, wherein application flow is directed to a first page if a success is obtained as the result, and is directed to a second page if a failure is obtained as the result.
- 32. (Previously Presented) The computer-readable storage medium of claim 28, wherein said application flow includes routing to a different page than is currently displayed in a user's browser.
- 33. (Previously Presented) The computer-readable storage medium of claim 21, wherein said generic Web application activities include error recording.
- 34. (Previously Presented) The computer-readable storage medium of claim 21, wherein said generic Web application activities include filtering of requests to match run-time attributes of the requests with the run-time values for the one or more attributes included in the customized command tag.
- 35. (Previously Presented) The computer-readable storage medium of claim 21, wherein said generic Web application activities include page routing.
- 36. (Previously Presented) The computer-readable storage medium of claim 21, wherein said generic Web application activities include activities that may be predefined before application execution.
- 37. (Previously Presented) The computer-readable storage medium of claim 21, wherein said customized command tag is invoked when an end user activates a link that points to a Web page containing the customized command tag.

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- 38. (Previously Presented) The computer-readable storage medium of claim 37, wherein said link comprises a Uniform Resource Locator (URL).
- 39. (Previously Presented) The computer-readable storage medium of claim 37, wherein said Web page containing the customized command tag comprises a Web page generated using dynamic scripting capability.
- 40. (Previously Presented) The computer-readable storage medium of claim 21, further comprising:

enabling a tag library descriptor that provides an association between a customized command tag and its corresponding OOPL class.

41. (Currently Amended) An improved method for Web application development, the method comprising:

providing a Web-based application development framework built from a set of object-oriented programming language (OOPL) classes, which extends an abstract command tag, said framework providing:

a non-programmatic tag framework that implements the functionality of the application framework when executing within a Web page using dynamic scripting capability;

tag-based Web application objects controlling program flow, executing user commands, representing application business objects, and constructing output;

a non-programmatic tag framework that <u>maps customized tag names</u>
<u>associated with customized command tags in a tag library descriptor file to</u>
<u>corresponding custom actions, and accesses data for logical business objects and allows page designers to specify a custom tag name and an action to be performed;</u>

enabling the embedding of the tag-based Web application objects <u>with</u> <u>customized tag names</u> in a Web page of a Web application; and

executing on of the Web application including invoking the tag-based Web application objects for conditionally executing actions specified by page designers

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based on run-time conditions of the tag-based Web application and tag attributes in the tag-based Web application objects.

- 42. (Original) The method of claim 41, wherein said non-programmatic tag framework includes detecting and reporting error conditions to either a page developer or an end user running a Web browser.
- 43. (Currently Amended) The method of claim 41, wherein said set of OOPL classes run in a Java Virtual Machine, wherein the Java Virtual Machine is an interpreter that interprets OOPL bytecodes into machine code.
- 44. (Currently Amended) The method of claim 43, wherein said Java Virtual Machine interpreter is running at a Web server site.
- 45. (Original) The method of claim 41, wherein specified actions can be filtered by matching a tag attribute with an HTTP request parameter.

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